



44

SEQUENCE LISTING

<110> Sharp, David J.
Rogers, Gregory C.
Scholey, Jonathon M.

<120> PEPTIDE INHIBITORS OF CELLULAR
PROLIFERATION

<130> UC069.001A

<140> 09/782,816

<141> 2001-02-14

<160> 56

<170> FastSEQ for Windows Version 4.0

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<211> 23

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<213> Unknown

<220>

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<222> 22

<223> Xaa = Val or Leu

<223> Peptide sequence

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Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr Glu Glu

1

5

10

15

Lys Leu Thr Pro Val Xaa Leu

20

<210> 2

<211> 22

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

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Glu Val Ala Ala Leu Gln Val Asp Arg Lys Val Ala Asp Glu Glu Lys

1

5

10

15

Gln Ser Tyr Asp Ala Val

20

<210> 3

<211> 22

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

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Gly	Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu
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Val	Gln	Glu	Leu	Thr	Thr										
			20												

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<213> Unknown

<220>

<223> Peptide sequence

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Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val
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			20												

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<213> Unknown

<220>

<223> Peptide sequence

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Glu	Leu	Thr	Thr												
			20												

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<211> 19

<212> PRT

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<220>

<223> Peptide sequence

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Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu
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<220>
<223> Peptide sequence

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Thr Thr

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<220>
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Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr
1 5 10 15
Thr

<210> 9
<211> 16
<212> PRT
<213> Unknown

<220>
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Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
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<210> 10
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<213> Unknown

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<210> 11

<211> 14
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<213> Unknown

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Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
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<210> 12
<211> 13
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

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Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 13
<211> 12
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

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Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 14
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 14
Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 15
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<213> Unknown

<220>

<223> Peptide sequence

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Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 16

<211> 9

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 16

Leu His Glu Val Gln Glu Leu Thr Thr
1 5

<210> 17

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

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His Glu Val Gln Glu Leu Thr Thr
1 5

<210> 18

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<220>

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Glu Val Gln Glu Leu Thr Thr
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<210> 19

<211> 6

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<220>

<223> Peptide sequence

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Val Gln Glu Leu Thr Thr
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<210> 20
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<220>

<223> Peptide sequence

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Gln Glu Leu Thr Thr
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<220>

<223> Peptide sequence

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Glu Leu Thr Thr
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<223> Peptide sequence

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Ala Lys Gln Leu Ala Ala Leu
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<220>

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Ala Lys Gln Leu Ala Ala

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<220>

<223> Peptide sequence

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Ala Lys Gln Leu Ala
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<223> Peptide sequence

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Ala Lys Gln Leu
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<211> 22
<212> PRT
<213> Unknown

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<223> Peptide sequence

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Gly Glu Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu
1 5 10 15
Met Asn Glu Leu Leu Asn
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<210> 27
<211> 21
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<220>

<223> Peptide sequence

<400> 27

Glu	Lys	Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu	Met
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Asn	Glu	Leu	Leu	Asn											
			20												

<210> 28
 <211> 20
 <212> PRT
 <213> Unknown

<220>

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<400> 28
Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn
1 5 10 15
Glu Leu Leu Asn
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<210> 29
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 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 29
Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu
1 5 10 15
Leu Leu Asn

<210> 30
 <211> 18
 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 30
Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu
1 5 10 15
Leu Asn

<210> 31
 <211> 17
 <212> PRT

<213> Unknown

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<223> Peptide sequence

<400> 31

Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu
1 5 10 15
Asn

<210> 32

<211> 16

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 32

Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10 15

<210> 33

<211> 15

<212> PRT

<213> Unknown

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<400> 33

Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
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<210> 34

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<212> PRT

<213> Unknown

<220>

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<400> 34

Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 35

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<400> 35

Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
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<210> 36

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<400> 36

Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
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<400> 37

Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
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Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
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Gln Ile Glu Met Asn Glu Leu Leu Asn
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Ile Glu Met Asn Glu Leu Leu Asn
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Glu Met Asn Glu Leu Leu Asn
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<400> 42

Met Asn Glu Leu Leu Asn
1 5

<210> 43

<211> 5

<212> PRT

<213> Unknown

<220>

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<400> 43

Asn Glu Leu Leu Asn

1

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Glu Leu Leu Asn

1

<210> 45

<211> 9

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Val Ala Thr Val Ile Ser Thr Ala Arg

1

5

<210> 46

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<400> 46

Val Ala Thr Val Ile Ser Thr Ala

1

5

<210> 47

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<400> 47

Val Ala Thr Val Ile Ser Thr
1 5

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<223> Peptide sequence

<400> 48

Val Ala Thr Val Ile Ser
1 5

<210> 49

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<223> Peptide sequence

<400> 49

Val Ala Thr Val Ile
1 5

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<223> Peptide sequence

<400> 50

Val Ala Thr Val
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<211> 52

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<213> Unknown

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 <223> Xaa = Val or Leu

<223> Peptide sequence

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1				5					10					15	
Val	Gln	Glu	Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	Val	Lys
			20					25					30		
Glu	Ser	Ala	Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Xaa	Leu	Ala	Lys	Gln
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Leu	Ala	Ala	Leu												
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 <213> Unknown

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<223> Peptide sequence

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Gly	Glu	Lys	Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu
1				5					10					15	
Met	Asn	Glu	Leu	Asn	Glu	Val	Ala	Ala	Leu	Gln	Val	Asp	Arg	Lys	
			20					25				30			
Val	Ala	Asp	Glu	Glu	Lys	Gln	Ser	Tyr	Asp	Ala	Val	Val	Ala	Thr	Val
		35					40					45			
Ile	Ser	Thr	Ala	Arg											
			50												

<210> 53
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 <213> Homo sapiens

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Met	Ala	Asp	Pro	Lys	Tyr	Ala	Asp	Leu	Pro	Gly	Ile	Ala	Arg	Asn	Glu
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Pro	Asp	Val	Tyr	Glu	Thr	Ser	Asp	Leu	Pro	Glu	Asp	Asp	Gln	Ala	Glu
			20					25					30		
Phe	Asp	Ala	Phe	Ala	Gln	Glu	Leu	Glu	Glu	Leu	Thr	Ser	Thr	Ser	Val
		35					40				45				
Glu	His	Ile	Ile	Val	Asn	Pro	Asn	Ala	Ala	Tyr	Asp	Lys	Phe	Lys	Asp
		50				55				60					
Lys	Arg	Val	Gly	Thr	Lys	Gly	Leu	Asp	Phe	Ser	Asp	Arg	Ile	Gly	Lys
65					70				75					80	
Thr	Lys	Arg	Thr	Gly	Tyr	Glu	Ser	Gly	Glu	Tyr	Glu	Met	Leu	Gly	Glu
				85				90					95		
Gly	Leu	Gly	Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu
			100					105					110		

His	Glu	Val	Gln	Glu	Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr		
		115					120					125					
Val	Lys	Glu	Ser	Ala	Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Leu	Leu	Ala		
		130					135				140						
Lys	Gln	Leu	Ala	Ala	Leu	Lys	Gln	Gln	Leu	Val	Ala	Ser	His	Leu	Glu		
145					150					155					160		
Lys	Leu	Leu	Gly	Pro	Asp	Ala	Ala	Ile	Asn	Leu	Thr	Asp	Pro	Asp	Gly		
			165					170						175			
Ala	Leu	Ala	Lys	Arg	Leu	Leu	Leu	Gln	Leu	Glu	Ala	Thr	Lys	Asn	Ser		
			180					185						190			
Lys	Gly	Gly	Ser	Gly	Gly	Lys	Thr	Thr	Gly	Thr	Pro	Pro	Asp	Ser	Ser		
		195					200						205				
Leu	Val	Thr	Tyr	Glu	Leu	His	Ser	Arg	Pro	Glu	Gln	Asp	Lys	Phe	Ser		
		210				215					220						
Gln	Ala	Ala	Lys	Val	Ala	Glu	Leu	Glu	Lys	Arg	Leu	Thr	Glu	Leu	Glu		
225					230					235					240		
Thr	Ala	Val	Arg	Cys	Asp	Gln	Asp	Ala	Gln	Asn	Pro	Leu	Ser	Ala	Gly		
			245						250					255			
Leu	Gln	Gly	Ala	Cys	Leu	Met	Glu	Thr	Val	Glu	Leu	Leu	Gln	Ala	Lys		
			260				265						270				
Val	Ser	Ala	Leu	Asp	Leu	Ala	Val	Leu	Asp	Gln	Val	Glu	Ala	Arg	Leu		
		275				280						285					
Gln	Ser	Val	Leu	Gly	Lys	Val	Asn	Glu	Ile	Ala	Lys	His	Lys	Ala	Ser		
		290				295					300						
Val	Glu	Asp	Ala	Asp	Thr	Gln	Ser	Lys	Val	His	Gln	Leu	Tyr	Glu	Thr		
305					310					315					320		
Ile	Gln	Arg	Trp	Ser	Pro	Ile	Ala	Ser	Thr	Leu	Pro	Glu	Leu	Val	Gln		
			325						330					335			
Arg	Leu	Val	Thr	Ile	Lys	Gln	Leu	His	Glu	Gln	Ala	Met	Gln	Phe	Gly		
		340					345						350				
Gln	Leu	Leu	Thr	His	Leu	Asp	Thr	Gln	Gln	Met	Ile	Ala	Asn	Ser			
		355				360					365						
Leu	Lys	Asp	Asn	Thr	Thr	Leu	Leu	Thr	Gln	Val	Gln	Thr	Thr	Met	Arg		
		370				375					380						
Glu	Asn	Leu	Ala	Thr	Val	Glu	Gly	Asn	Phe	Ala	Ser	Ile	Asp	Glu	Arg		
385					390					395					400		
Met	Lys	Lys	Leu	Gly	Lys												
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 Met Ala Asp Pro Lys Tyr Ala Asp Leu Pro Gly Ile Ala Arg Asn Glu
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 Pro Asp Val Tyr Glu Thr Ser Asp Leu Pro Glu Asp Asp Gln Ala Glu
 20 25 30
 Phe Asp Ala Glu Glu Leu Ser Ser Thr Ser Val Glu His Ile Ile Val
 35 40 45
 Asn Pro Asn Ala Ala Tyr Asp Lys Phe Lys Asp Lys Arg Val Gly Thr
 50 55 60
 Lys Gly Leu Asp Phe Ser Asp Arg Ile Gly Lys Thr Lys Arg Thr Gly
 65 70 75 80
 Tyr Glu Ser Gly Asp Tyr Glu Met Leu Gly Glu Gly Leu Gly Val Lys

				85					90					95			
Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu		
			100					105					110				
Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	Val	Lys	Glu	Ser	Ala		
		115					120					125					
Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Val	Leu	Ala	Lys	Gln	Leu	Ala	Ala		
	130					135					140						
Leu	Lys	Gln	Gln	Leu	Val	Ala	Ser	His	Leu	Glu	Lys	Leu	Leu	Gly	Pro		
145					150					155					160		
Asp	Ala	Ala	Ile	Asn	Leu	Ala	Asp	Pro	Asp	Gly	Ala	Leu	Ala	Lys	Arg		
				165					170					175			
Leu	Leu	Leu	Gln	Leu	Glu	Ala											
			180														

<210> 55
 <211> 1143
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 <213> Drosophila melanogaster

<400> 55
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 gaagccatcg agcgactgca catctcgccg agcgtcgctc acaagcgctt cagcggagca 180
 acggtcgagg ggaagtgtga cttcacggat cgcattggac gacgcatgtg ccgggggttac 240
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 cagaagtgcc agcgcttgca gatcgagatg aacgagcttc tgaacgaggt ggccgccttg 360
 caggtggacc gcaaggtagc cgacgaggag aagcagtcgt acgatgcggt ggccacggtt 420
 atcagcacgg cccgaaaggt gctggagtcg ctgaagctgg agcaagtgtt gggcaaggag 480
 cagacgcctg gaagtaagca ggtgaaagca ctcattagcc aggtggagga gttcaagcag 540
 tccggcggtc tcacagccat acccacgcct ggcaccgatc tggcggccac ggccgcgcta 600
 gccagtctag agcagcgaat ctgcgagctg gagaaggtgc tgggcgctca gccggacaag 660
 ttga'ccgccc ttaccgccc caccaacacc accaatgtac tagaggcagt gcgtcatcta 720
 agcaccaagg cggccctgat acagcctgat aaactggaca ccatcgagca gcgcctgacc 780
 tcgctggccg gcaagatgga tgctatcgcc gaaaagtcca gcggcagtgcc ccaggacgcc 840
 aaacgagatc agaagattac ggaactatac gacatcgcca agcgcacgga gccagtgggtg 900
 gaaatactgc cgcacgtcat cgaacgcatg caagccctcg aggccctcca taaatatgca 960
 aacaatttcg ccaagatcat cgcagagatt gagcagaagc agggaaccat caccactagc 1020
 ttggtgaaca acaaggagct gctgcattcc gtacaggaga ctttcgcccc gaatctggag 1080
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 tga 1143

<210> 56
 <211> 380
 <212> PRT
 <213> Drosophila melanogaster

<400> 56
 Met Ala Asp Pro Lys Phe Gln Asn Leu Pro Gly Ile Ala Tyr Asp Gln
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 Pro Asp Val Tyr Glu Thr Pro Asp Asp Pro Glu Leu Asp Thr Ser Asp
 20 25 30
 Tyr Tyr Glu Glu Glu Pro Glu Asn Glu Ala Ile Glu Arg Leu His Ile
 35 40 45
 Ser Pro Ser Val Ala His Lys Arg Phe Ser Gly Ala Thr Val Glu Gly
 50 55 60
 Ser Val Asp Phe Thr Asp Arg Ile Gly Arg Arg Met Cys Arg Gly Tyr

65					70					75					80
Asp	Thr	Arg	Gly	Ser	Ser	Asp	Tyr	Glu	Leu	Val	Gly	Gln	Gly	Glu	Lys
				85					90					95	
Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu	Met	Asn	Glu
			100					105					110		
Leu	Leu	Asn	Glu	Val	Ala	Ala	Leu	Gln	Val	Asp	Arg	Lys	Val	Ala	Asp
		115						120				125			
Glu	Glu	Lys	Gln	Ser	Tyr	Asp	Ala	Val	Ala	Thr	Val	Ile	Ser	Thr	Ala
	130					135					140				
Arg	Lys	Val	Leu	Glu	Ser	Leu	Lys	Leu	Glu	Gln	Val	Leu	Gly	Lys	Glu
145					150					155					160
Gln	Thr	Pro	Gly	Ser	Lys	Gln	Val	Lys	Ala	Leu	Ile	Ser	Gln	Val	Glu
				165					170					175	
Glu	Phe	Lys	Gln	Ser	Gly	Val	Leu	Thr	Ala	Ile	Pro	Thr	Pro	Gly	Thr
			180					185					190		
Asp	Leu	Ala	Ala	Thr	Ala	Arg	Val	Ala	Ser	Leu	Glu	Gln	Arg	Ile	Ser
		195					200					205			
Gln	Leu	Glu	Lys	Val	Leu	Gly	Ala	Gln	Pro	Asp	Lys	Leu	Ser	Arg	Leu
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Thr	Ala	Ala	Thr	Asn	Thr	Thr	Asn	Val	Leu	Glu	Ala	Val	Arg	His	Leu
225					230					235				240	
Ser	Thr	Lys	Ala	Ala	Leu	Ile	Gln	Pro	Asp	Lys	Leu	Asp	Thr	Ile	Glu
			245						250					255	
Gln	Arg	Leu	Thr	Ser	Leu	Ala	Gly	Lys	Met	Asp	Ala	Ile	Ala	Glu	Lys
			260					265					270		
Ser	Ser	Gly	Ser	Ala	Gln	Asp	Ala	Lys	Arg	Asp	Gln	Lys	Ile	Thr	Glu
		275					280					285			
Leu	Tyr	Asp	Ile	Ala	Lys	Arg	Thr	Glu	Pro	Val	Val	Glu	Ile	Leu	Pro
	290					295					300				
His	Val	Ile	Glu	Arg	Met	Gln	Ala	Leu	Glu	Ala	Leu	His	Lys	Tyr	Ala
305					310					315					320
Asn	Asn	Phe	Ala	Lys	Ile	Ile	Ala	Glu	Ile	Glu	Gln	Lys	Gln	Gly	Thr
				325					330					335	
Ile	Thr	Thr	Ser	Leu	Val	Asn	Asn	Lys	Glu	Leu	Leu	His	Ser	Val	Gln
			340					345					350		
Glu	Thr	Phe	Ala	Gln	Asn	Leu	Glu	Thr	Ile	Asn	Ser	Lys	Val	Ala	Lys
		355					360					365			
Val	Glu	Gln	Arg	Val	Ala	Ala	Ile	Ser	Ser	Ala	Lys				
	370					375					380				

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051801